



# **SHAHEED ZULFIQAR ALI BHUTTO** **MEDICAL UNIVERSITY**

## **Road Map for Postgraduate Residents**

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## A. Part-I Examinations

The Applicant has to be appear in the MS/MD/MDS Part-I examination on dates advertise in national newspaper & on official SZABMU website.

### 1. Syllabus for Part - I of MS & MD

<b>Paper I: 100 MCQ (Single Best Type) 100 Marks</b>					
Sr. #	Topic	%age	<b>(For All disciplines)</b>		
1.	Basic Anatomy	30%			
2.	Physiology	30%			
3.	Biochemistry	10%			
4.	Pharmacology	10%			
5.	Pathology	20%			
<b>Paper II: 100 MCQ (Single Best Type) 100 Marks</b>					
<b>Applied Surgery</b> for Surgery & Allied Disciplines			<b>Applied Medicine</b> for Medicine & Allied Disciplines		
S. #	Topic	%age	S. #	Topic	%age
1.	Inflammation and Sepsis	15%	1.	Inflammation, infection and Sepsis	12%
2.	Infections	5%	2.	Immunology	5%
3.	Fluids & Electrolytes	20%	3.	Fluid, electrolytes and acid base balance	10%
4.	Endocrine	10%	4.	Hematology	10%
5.	GIT	10%	5.	Cardiovascular system	10%
6.	Urology	5%	6.	Respiratory system	10%
7.	Orthopedic Surgery	5%	7.	Gastroenterology	10%
8.	Neurosurgery	10%	8.	Hepatology, nephrology	10%
9.	Gynae/Obs	10%	9.	Neurology, Rheumatology	8%
10.	ENT/EYE	5%	10.	Endocrinology and Diabetes	10%
11.	Anesthesia / ICU Care	5%	11.	ICU care	5%



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## **2. Syllabus for Part - I of MDS**

<b>Paper - I:</b> 100 MCQ (Single Best Type)			<b>Paper - II:</b> 100 MCQ (Single Best Type)		
<b>S. #</b>	<b>Topic</b>	<b>%age</b>	<b>S. #</b>	<b>Topic</b>	<b>%age</b>
1	Anatomy	10 %	1	General Surgery	10%
2	Physiology	10%	2	General Medicine	10%
3	Biochemistry	10%	3	Oral Medicine	10%
4	General Pathology	08%	4	Periodontology	10%
5	Dental Material	12 %	5	Oral Surgery	10%
6	Pharmacology	10 %	6	Prosthetics	15%
7	Community Dentistry	10 %	7	Operative Dentistry	15%
8	Oral Biology	16 %	8	Orthodontics	10%
9	Oral Pathology	14 %	9	Dental Anesthesia	10%

## **3. Process of application**

- The validity of MS/MD/MDS Part-I is Two (02) years.
- Successful candidates of Part-I examination are eligible to apply online for Part-II Residency Program after the University advertisement in newspaper & official website [www.szabmu.edu.pk](http://www.szabmu.edu.pk)

## **B. Eligibility Criteria for MD/MS/MDS**

1. Candidate must possess MBBS/BDS or equivalent degree registered by PMC
2. Must possess one year house job from a PMC recognized Institution
3. Permanent valid registration with PMC
4. Declared successful in MD/MS/MDS Part-I conducted by SZAB Medical University.
5. In case of foreign candidate, valid registration with Medical Council of their country of origin must be produced.

## **C. Procedure for Admissions in MD/MS/MDS**

1. For MD/MS/MDS Residency Program Admission Form must be filled online at [www.admissions.szabmu.edu.pk](http://www.admissions.szabmu.edu.pk)
2. Applicants must choose Degree Level MD/MS/MDS and once it's chosen, they can apply in maximum 2 Specialties.
3. In case of incorrect information, the University has the right to cancel the admission application without any refund of deposited fee.



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4. Application processing fee is Rs. 2000/- for each Specialty
5. Applicants will submit a Bank Draft/ Pay Order in favor of Shaheed Zulfiqar Ali Bhutto Medical University Islamabad (NTN# 9010030-4). Fee is non-refundable/non-adjustable.

### **D. Procedure for Admissions in M.Phil (Basic Medical Sciences)**

1. Candidate must possess MBBS or equivalent degree registered by PMC
  2. Must possess one year house job from a PMC recognized Institution
  3. Permanent valid registration with PMC
  4. Having valid GAT General passing certificate/ SZAB Medical University Test as per HEC.
  5. In case of foreign candidate, valid registration with Medical Council of their country of origin must be produced.
- Applicant will have to appear in interview in response to call letter from Registrar Office.
  - Interview will be taken by panel of experts (Faculty of relevant Specialty)
  - Result will be uploaded on Website of Shaheed Zulfiqar Ali Bhutto Medical University and offer letters will be issued on their provided addresses.
  - Selected applicants will join their specialty/ departments (at PIMS or any affiliated postgraduate institute of SZABMU) in given time period and submit their joining at Registrar Office after completing all codal formalities.
- Note: Once joined the relevant post graduate program will not be switched over to any other program/specialty.*
- Selected residents must registered with Shaheed Zulfiqar Ali Bhutto Medical University within 30 days of the date of issuance of Notification of Registration along with recipient of the prescribed registration fee, failing which the admission of selected residents shall be deemed cancelled.
  - Residents have to complete all the mandatory workshops in 1<sup>st</sup> year of training.
  - Within first year of registration, the trainee is required to submit Synopsis of thesis (as per guidelines issued from Supervisor, Dean, Synopsis Committee, ERB of SZABMU. Then final approval will be through AS&RB).



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## **E. SUPERVISOR, SYNOPSIS AND THESIS TITLE**

- The title of research shall be selected by the student in a particular Specialty with the approval of the Supervisor and Ethical Review Board as well. Synopsis of the Thesis will be submitted within one year of registration, and has to be approved by Supervisor & AS&RB of the University.
- The Synopsis is a brief out line (about four A-4 size pages or 1000 words is the maximum limit) of envisaged Research Project to be conducted as mandatory requirement of the degree.
- The Research Board shall appoint a supervisor (and a co-supervisor, if necessary) from the relevant field of specialization and approve the field of research/ title on the recommendations of the Head of Department/Institute concerned.
- The Supervisor (and a co-supervisor, if necessary) shall be a Professor/ Associate Professor having the qualifications of MD/ MDS/MS/ Ph.D/ FCPS/ FRCS/ MRCP/ MRCOG /M.Phil, (old courses of four years) or any other equivalent terminal qualification with five years' experience in the relevant field. Assistant Professor with five years teaching experience shall stand eligible to become Supervisor of the programme.
- Number of candidate in each department.  
The Professor / Head of the Department/ unit can have upto two post graduate residents per year and Associate/ Assistant Professor will have one per year.

- i. From the date of registration, and the maximum period shall be six years for submission of thesis. Only under exceptional circumstances, to be described in detail by the candidate and supported by the supervisor, the Research Board may allow extension of one year beyond seven years. The candidate shall appear in final examination within eight year of his/her registration.
- ii. The training will be full time and residential.

## **F. Longitudinal evaluation (Logbook, Assignments, Assessments)**

- Throughout the length of the course the performance of the candidate will be recorded on the Log Book. The Log Book will reflect the performance of the candidate in the following parameters:
  - a. Entries in log book should be on regular basis, not at the end of program.
  - b. Record of competence of technical skills.
  - c. Record of the assignments.
  - d. Record of affective and interpersonal behaviors.



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- e. Record of Journal clubs, conferences and lectures attended.

## **G. Mandatory Workshops**

During training candidate will attend the following mandatory workshops:

- i. Communication skills.
- ii. Research methodology, Biostatics & Medical writing
- iii. Computer and internet skills.
- iv. Basic Life Support
- v. Surgical skills (For Surgery & allied disciplines)

Candidate will submit copy of Certificate of Attendance of above mentioned workshops to the University.

## **H. Thesis**

The thesis submitted by all post graduate residents shall comply with the following conditions:

- i. It shall form a distinct contribution to knowledge and afford evidence of originality, shown by the discovery of new facts, by the exercise of independent critical judgment and / or by the invention of new methods of investigation.
- ii. It shall not include research work for which a degree has already been conferred in this or any other university/college.
- iii. It shall be written in English and the presentation must be satisfactory for publication.
- iv. Any part of the thesis which has been published before submission of the thesis may be appended at the end of the thesis.
- v. The thesis shall be typed on A4 size (11.69" x 8.27") paper with margins of 1-1/2" on the left and 1" to the right, top and bottom of each page.
- vi. The thesis shall be hard bound with the black cloth cover and golden lettering on the front and the back.

## **I. Thesis Evaluation**

- i. There shall be a standing list of External Examiners for each discipline consisting of persons of eminence in the respective field of research. The list shall be suggested from time to time by the Board of Studies of the Department/ Institute, Board of Faculty concerned and approved by the Research Board. The External Examiners will be requested to critically examine the thesis for its suitability for acceptance.



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- ii. The candidate shall in the first instance submit four unbound copies of his/her complete thesis along with an application on prescribed form for the evaluation of his/ her thesis, duly forwarded by his/her supervisor and the Dean/ Principal/ Director of the institute/ department, along with prescribed Thesis Evaluation fee. The University will pay to each Evaluator for the thesis evaluation.
- iii. The Vice Chancellor shall appoint three External Examiners from the approved list of External Examiners.
- iv. The reports of the examiners shall be placed before the Research Board for consideration.
- v. If two of the three Examiners find that the thesis is wholly inadequate it may be rejected by the Research Board.
- vi. If any of the examiners suggests modification/ revision of the thesis, the candidate shall be required to resubmit a revised version of the thesis duly certified by the supervisor, within one year (in case of Major Correction).
- vii. The revised version of the thesis shall be approved by the same examiners (s) who suggested modification/ revision of the thesis (in case of Major Correction)
- viii. If any examiner finds the thesis adequate but suggests minor modification/ revision, this may be incorporated without referring again to the examiners. However, supervisor will recommend the correction.
- ix. The candidate will submit the research thesis in the final year of training, six months before completion of the training.

### **J. Thesis Evaluation Criteria For AS & RB**

In pursuance of recommendations of Academic Council, decisions were taken about thesis evaluation of MS/MD/MDS/M.PHIL thesis. Three (03) copies of thesis will be sent to three (03) external examiners for evaluation (28th February for Aug/Sep exam & 31st August for Mar/Apr Exam). In consideration of thesis evaluation reports in respect of MS/MD/MDS/M.Phil. (Postgraduate Students), the Board's decision for thesis evaluation is as follows.

- i. If three examiners have accepted thesis with minor correction in present/accepted form thesis should be sent to the Advanced Studies & Research Boards (AS & RB) for further necessary action.
- ii. In case two external examiners accepted thesis as minor in present/accepted form and third examiner reject the thesis, all thesis report will be rejected, and student must rewrite thesis.
- iii. In case of two minor and one major corrections student will resubmit the thesis after three months.



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- iv. Time required for Thesis evaluation is within one year.
- Residents will be evaluated by Supervisor quarterly throughout the residency according to the syllabus/curriculum and report will be submitted to the Registrar office.
- After completing required years of training Residents have to appear in the MTA (Mid Term Assessment) examination as per syllabus.

## **K. Mid Term Assessment (MTA)**

The Mid Term Assessment (MTA) examination is mandatory eligibility requirement for all Postgraduate Final examinations. Candidates are required to have passed Part-I in respective Discipline, or been granted official exemption \*, complete two years training in respective specialties, get approval of their Synopsis from AS&RB and take the MTA Examination.

In case of failure in the MTA examination, the trainees are permitted to continue their training in the chosen specialty but must pass the MTA examination prior to appear in the final examination.

### **1. Required Documents for Appearing in MTA Examination**

1. Copy of CNIC/ Passport (foreigners only).
2. 4 passport size attested photographs
3. Copy of MBBS/BDS Degree.
4. Copy of PM&DC/PMC valid registration.
5. Copy of Registration Card issued by the Registrar Office
6. Copy of Workshop Certificates
7. Copy of Letter stating completion of two years satisfactory training experience duly signed by the Supervisor from Registrar Office.
8. Letters of Synopsis Approval issued by Meeting Section.

**All these documents must be attested by faculty member.**





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## 2. Format of Examination

MTA Examination consists of the following components:

<b>ASSESSMENT</b>		
<b>Written</b>	Paper:100 One Best MCQs (100 Marks) Part-A: 50% MCQs from General Principles Part-B: 50% MCQs from Specialty Oriented	Pass Marks 60% Aggregate and Not Less than 55% in any Part(A Or B)
<b>Assessment of Clinical &amp; Technical Skills (ACTS/OSCE)</b>	100 Marks 8-12 Stations	Pass Marks 60%
<b>Total Marks</b>		<b>200</b>

- During process of Research the resident has to submit study data/result of project on quarterly basis to the Department of Medical Education (DME) and Biostatistician.
- After completion of thesis, the approval will be taken from AS&RB and then the thesis will be submitted to Controller of Examination.
- After approval of thesis from AS&RB, the Resident can appear in the final examination.

### **L. MD/MS/MDS Final Examination**

- **ELIGIBILITY FOR MD/MS/MDS/ Final EXAMINATION:**

The eligibility requirements for candidates appearing in MD/MS/MDS Final Examination are:

1. To have passed MD/MS/MDS Part-I in respective Discipline, or been granted official exemption \*.
2. To have undertaken of the specified training in Respective Specialty, all of which should be after passing Part-I (a certificate testifying attendance is obligatory for admittance to examination) in an institution affiliated with SZABMU
3. To provide a certificate of attendance of mandatory workshops.
4. To submit a completed and duly signed logbook from respective supervisor.
5. To provide a certificate of having passed the MTA Examination.
6. To provide a certificate of approval of Thesis



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- **REQUIRED DOCUMENTS FOR APPEARING IN FINAL EXAMINATION**

1. Copy of CNIC/Passport
2. 4 passport size attested photographs
3. Copy of MBBS/BDS Degree
4. Copy of PM&DC/PMC valid registration
5. Copy of registration card issued by the registrar office
6. Copy of Certificate of completion of required training issued by the registrar office duly signed by the supervisor.
7. Pass Certificate of Mid Term Assessment (MTA)
8. Copy of Certificate of approval of thesis issued by the meeting section.
9. LOG Book duly signed by the concerned supervisor.
10. Attested copies of mandatory workshop certificates.

**All these documents must be attested by faculty member.**

## **M. Component of Postgraduate Examinations MS,MD,MDS, M.Phil & MSc**

Final Postgraduate examination of MS, MD, MDS, M.Phil & MSc comprises of following three (03) main components.

1. Theory Examination
2. OSCE & Clinical Examination
3. Defence of Thesis

### **1. Theory Examination**

- **Format & Passing Criteria**

<b>Paper</b>	<b>Type</b>	<b>Marks</b>	<b>Duration</b>	<b>Passing Criteria</b>
Paper – I	One Best Type MCQ Paper	100	03 Hours	75 % in Aggregate and Not Less than 70% in any Paper
Paper – II	One Best Type MCQ Paper	100	03 Hours	



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## **2. OSCE & Clinical Examinations**

- **Eligibility**

A candidate shall be eligible for the OSCE & Clinical Examination after passing theory examination. He can avail three consecutive clinical examinations after passing a final theory examination of his own discipline.

A candidate availing/missed all the three consecutive chances of clinical examination after passing a theory examination, he shall appear again in the theory examination

- **Format & Passing Criteria**

OSCE & Clinical Examination is comprising of three components

- OSCE
- Long Case
- Short Case

<b>Component</b>	<b>Protocol Description</b>	<b>Marks</b>	<b>Duration</b>	<b>Passing Criteria</b>
OSCE	8-12 Stations . 60 % Interactive	100	5 to 6 minutes per stations	60 % in Aggregate and Not Less than 55% in any Paper
Long Case	One (01) Case	100	50 Minutes	
Short Case	Four (04) Case	100	40 Minutes (10 Minutes for each case)	

**Note:** If a candidate securing 60% or more marks in OSCE component, He/She shall be exempted from this component in the next clinical examination until & unless he reappear in the theory examination.

## **3. Defence of Thesis**

- **Eligibility**

A candidate shall be eligible for defence of thesis examination whether he/she shall be declared pass or fail in the theory examination

- **Format of Examination**

Defence of thesis examination comprises of a presentation and Question/Answer session with a panel of examiners.



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- **Passing criteria**

70% marks

**Note:** If a candidate is declared pass in the Defence of Thesis Examination, he/she shall be exempted from this component for subsequent exams attempts

**Provisional Certificate, Transcript and Degree will be awarded only after passing all the components of the final MS,MD,MDS, M.Phil & MSc examination.**

## **N. Result Declaration And Awarding Certificates/Diploma/ Degree**

1. The result will be announced after the examination.
2. Transcript / DMC will be issued within one month of result declaration.
3. Degree / Diploma will be awarded in the convocation.

## **O. M.Phil/ Msc Program**

M-Phil/MSc degree program consists of

- **Study work**  
2 years' training in respective discipline
- **Research Work:**
  - Before starting to work on Research Thesis, the Postgraduate Trainee has to send a Synopsis to Ethical Review Board and get the topic approved. The synopsis is a brief outline (about four A-4 size pages or 1000 words is the maximum limit) of PGRs future work. After topic approval from ERB, the Synopsis will be placed before the Advanced Studies & Research Board and the candidate have to defend his Synopsis for seeking approval. (This should be done within the First year of training.
  - The Research Board shall appoint a Supervisor (and a co-supervisor, if necessary) from the relevant field of specialization and approve the field of research/ title on the recommendations of the Institute concerned.

### **i.Part I Examination:**

The Scholars are required to complete one year's training in respective discipline, get approval of their Synopsis from AS&RB and take the Part- I Examination.



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In case of failure in the Part I examination, the Student are permitted to continue their training in the chosen discipline but must pass the Part - I examination prior to appearing in the final examination.

## ***Documents Required for MPhil/MSc Part I Examination***

1. Copy of CNIC/Passport.
2. 4 passport size attested photographs
3. Copy of MBBS/BDS Degree.
4. Copy of PM&DC/PMC valid registration.
5. Copy of Registration Card issued by the Registrar Office
6. Copy of Experience Letter regarding satisfactory completion of one year training with the supervisor.
7. Letter of Synopsis Approval from AS&RB

**All these documents must be attested by faculty member.**

## **ii. Final Examination:**

### ***The Following documents required for M.Phil/MSc Part II***

1. Attested Copy of CNIC/ Passport (foreigners only).
2. 4 passport size colored attested photographs
3. Attested Copy of MBBS/BDS Degree.
4. Attested Copy of PM&DC/PMC valid registration.
5. Attested copy of pass certificate of MSC/M.Phil Part-I
6. Attested copy of Training completion certificate stating completion of required training, issued by Registrar office and duly verified by the supervisor.
7. Attested copy of certificate of approval of thesis from AS&RB.
8. Attested copies of mandatory workshop certificates.

All attestation must be stamped with name and designation of the attester

- No additional time for research will be given to PGR's after completion of training duration or clinical attachment.



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## **Note:**

1. In case of Failure to submit the synopsis in first year of training, Resident can be removed from the residency program.
2. Residents who avail maternity leaves have to complete the training against said leave without stipend and no additional time for research will be given to the residents after completion of said duration.
3. Road Map for Postgraduate Residents will be revised time to time as per policy by the University.

\*Holder of FCPS/ MRCP/ FRCS/ Diplomate American Board or equivalent qualification as recognized by PMDC in the same Specialty.

\*Holder of FCPS/ MD/MS / MDS/ FRCS/ MRCP or Equivalent qualification in General Medicine/General Surgery and want admission in MD/ MS/ MDS in allied sub-specialty.

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